PATE COOPERATION TREATY

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INTERNATIONAL SEARCHING AUTHORITY

Applicant's or agent's file reference PSBK 1086PCT / See paragraph 2 below International application No. PCT/KR2005/001037 International filing date (day/month/year) Priority date(day/month/year) Priority Prior	To:	PCT				
Date of mailing (day/month/year) 18 NOVEMBER 2005 (18.11.2005)	KIM, Sung-Gyu	101				
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18 NOVEMBER 2005 (18.11.2005)

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INTERNATIONAL SEARCHING AUTHORITY

al application No. PCT/KR2005/001037

ox No. I Basis of this o	pinion	
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	guage, this opinion has been established on the basis of the international application in the less otherwise indicated under this item.	language in
This opinion has	s been established on the basis of a translation from the original language into the following which is the language of a translation furnished for the purposes of internationa 23.1(b).	
. With regard to any n	nucleotide and/or amino acid sequence disclosed in the international application and necessity of the second sequence disclosed in the international application and necessity of the second se	cessary to the
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/KR2005/001037

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement		1.11			
Novelty (N)	Claims	1-11		YES	
	Claims	None		NO NO	
Inventive step (IS)	Claims	1-11		YES	
·	Claims	None		NO	
Industrial applicability (IA)	Claims	1-11		YES	
Service of the servic	Claims	None	-	NO	

2. Citations and explanations:

Reference is made to the following documents:

D1 = US 6,683,438 B2 (Samsung Electronics Co., Ltd.(KR)) 27 Jan. 2004

D2 = US 6,118,249 A (Perdix Oy, Helsinki, Finland) 12 Sep. 2000

The subject-matter of claims 1-11 is a non-contact charging system which detects a portable terminal, a battery pack or a foreign object that is placed on the pad of a non-contact charger, and effectively monitors and controls its charging state through the detection, thus preventing such a foreign object placed on the pad from being heated by induction heating, and further causes anions to be generated during the charging of the portable terminal or the battery pack, thus sterilizing bacteria on a terminal and keeping ambient air thereof fresh.

On the other hand, D1 discloses a contactless battery charger which includes a converter and a charging unit. A converter, which includes a primary side of the PCB transformer, converts a commercial electric power to a high-frequency square wave and applies the converted high-frequency square wave to the primary side of the PCB transformer. A charging unit, which comprises a secondary side of the PCB transformer, converts to a DC voltage an electromotive force induced at the secondary side of the PCB transformer by a magnetic field generated by the square wave applied to the primary side of the PCB transformer.

D2 discloses a charger for batteries, wherein a power oscillator produces an alternating magnetic field with the primary part of an inductive coupler. Especially the charger contains a detection means which generates at least one control signal when the inductive load of the coupler is periodically changed in order to switch the power level from a low average value in the stand-by mode to a higher average value for charging operation.

But neither D1 nor D2 teaches or fairly suggests the detection means which detects a portable terminal, a battery pack or a foreign object that is placed on the pad of a non-contact charger.

Therefore, the subject matter of claim 1-11 is considered to be novel and involve an inventive step.